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Robinson et al.(10) **Pub. No.: US 2012/0208027 A1**(43) **Pub. Date: Aug. 16, 2012**(54) **REDUCED GRAPHENE OXIDE FILM****Publication Classification**(75) Inventors: **Jeremy T. Robinson**, Washington,
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by the Secretary of the Navy**,
Washington, DC (US)(51) **Int. Cl.**
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977/842**(21) Appl. No.: **13/455,563**(22) Filed: **Apr. 25, 2012****Related U.S. Application Data**(62) Division of application No. 12/366,833, filed on Feb.
6, 2009, now Pat. No. 8,182,917.(60) Provisional application No. 61/038,137, filed on Mar.
20, 2008.(57) **ABSTRACT**

Spin coating a mixture of graphene oxide platelets, water, and an organic solvent by placing a drop of the mixture on a spinning substrate while blowing a drying gas onto the substrate and allowing the water and the organic solvent on the substrate to evaporate; and repeating the spin coating one or more times to form a graphene oxide film in contact with the substrate. An about 1-100 nm thick film of overlapping platelets of reduced graphene oxide.

